MCCDC, MCSC Coordinated UAV Endorsement Brief

Presented by:
Ms. Katrina Wahl, Product Group Director
MC2I, MCSC
Maj Jay Mullin, UAV Capabilities Officer
ACE Branch, FFDC, MCCDC

Purpose

- **Gain CEAB endorsement on**
  - **Marine Corps' 3 Tier UAV Family of Systems (FoS) concept.**
  - **Establishment of USMC OIPT to make recommendations to MROC on:**
    - **Advocacy and ownership**
    - **Acquisition Issue**
    - **Funding Strategy**

Vision

- **The FoS will provide each level of the MAGTF and subordinate units an organic, interoperable and tailored ISR capability giving situational awareness to the warfighter through a common C2 architecture.**

Outline

- Background
  - Tier Definition
  - Advocacy
- Operational Systems
  - Current
  - Bridge
  - Future
- FoS Interoperability
  - Current
  - Bridge
  - Future
- Acquisition Approach
- Funding Strategy

Background

- **USMC UAV 3 Tier definition**
- **Advocacy and ownership by Tier**
  - **Tiers I & II directed to DC CD**
    - **Physically reside in GCE**
  - **Tier III to DC A**
    - **Resides in ACE**

Recommend USMC OIPT address advocacy and ownership issues for MROC decision

Operational Systems

- **Tier I**
  - **Current: Dragon Eye**
    - **ACTD**
    - **Performing well in OEF & OIF**
      - **I MEF UNS request increased AO**
    - **Capabilities**
  - **Bridge: Dragon Eye system enhancements**
    - **MCWL developing upgrades**
      - **Small unit Joint UAV IPT efforts**
    - **Capabilities**
  - **Future: Joint USMC/USA/SOCOM**
    - **Capabilities**

Operational Systems (cont.)

- **Tier II**
  - **Current: ISR Services Contract (Scan Eagle)**
    - **Fills low density, high demand capability gap identified by I MEF UUNS for OIF**
    - **Employment**
      - **Solely operated and maintained with contractor support**
      - **Resides in VMU for II MEF in OIF**
    - **Capabilities**
  - **Bridge: Tier II development**
    - **MCWL demonstrator FY 06-08**
    - **MCCDC JCIDS documentation development including AoA**
      - **Possible joint development with USN**
  - **Future:**
    - **Capabilities**

Operational Systems (cont.)

- **Tier III**
  - **Current: Pioneer**
    - **Does not meet future Tier III concept requirements**
    - **Employed more in a Tier II role in OIF**
    - **Capabilities**
  - **Bridge: Pioneer sustainment and VUAV development**
    - **Pioneer sustainment program through 2015**
      - **Bridging capabilities**
    - **MCCDC JCIDS documentation development**
      - **Projected ICD JROC signature Nov 2005**
  - **Future: VUAV**
    - **IOC 2012-2013**
    - **Capabilities**

Family of Systems

- **Interoperability**
  - **The key element of a FoS**
  - **Architecture**
  - **Current**
    - **Web hosting**
    - **Rover III remote receive station**
  - **Bridging**
    - **MAGTF C2**
    - **Joint TCDL Working Group**
  - **Future**
    - **Seamless data availability through MAGTF C2**
    - **Common Ground Control Station**
  - **So What ??**
    - **Data availability to all levels of command regardless of UAV ownership**
    - **Flexibility in UAV control**
    - **Improved airspace deconfliction**

Acquisition Issue

- **An affordability analysis comparing the MAGTF C2 vision against the JCIDS AoAs for UAVs should be conducted to determine best business case.**
  - **If analysis determines one developer for C2 S/W for UAVs under MAGTF C2 concept is more affordable, then service position needs to be vetted appropriately to ASN, and governance will be revisited.**
  - **If analysis determines that multiple C2 S/W developers against a standard in accordance with MAGTF C2 is more affordable, then no change is required except for close collaboration between MCSC and NAVAIR.**

IPT recommend path forward as service position to ACMC with path forward to ASN as appropriate

Funding Strategy

- **Tier I - Funded**
- **Tier II**
  - **Current - ISR services contract - funded**
  - **Bridging - MCWL user assessment – Funding TBD**
  - **Future Tier II UAV program**
    - **JCIDS: Additional funding required**
    - ***Programmatics: Unfunded (off POM cycle)***
  - **Potential for USN/USMC acquisition program**

Funding Strategy

- **Tier III**
  - **Current – Pioneer – Funded by O&MN, WPN, and war supplementals**
  - **Bridging – Pioneer sustainment**
    - **Provide funding to Pioneer (O&MN and WPN) for sustainment in FY 07-11**
    - **Proposed O&MN funding FY 12-15**
  - **Future – VUAV**
    - **Pre-milestone activity funding identified**
    - ***JCIDS: Funding ends July***
    - **Program funding – TBD**

Recommend USMC OIPT address funding issues for MROC decision

Conclusion

Request CEAB endorsement on:

- **3 Tier FoS Vision**
- **Establishment of USMC IPT membership to make recommendations to MROC on:**
  - **Advocacy and ownership**
  - **Acquisition issue**
  - **Funding Strategy**

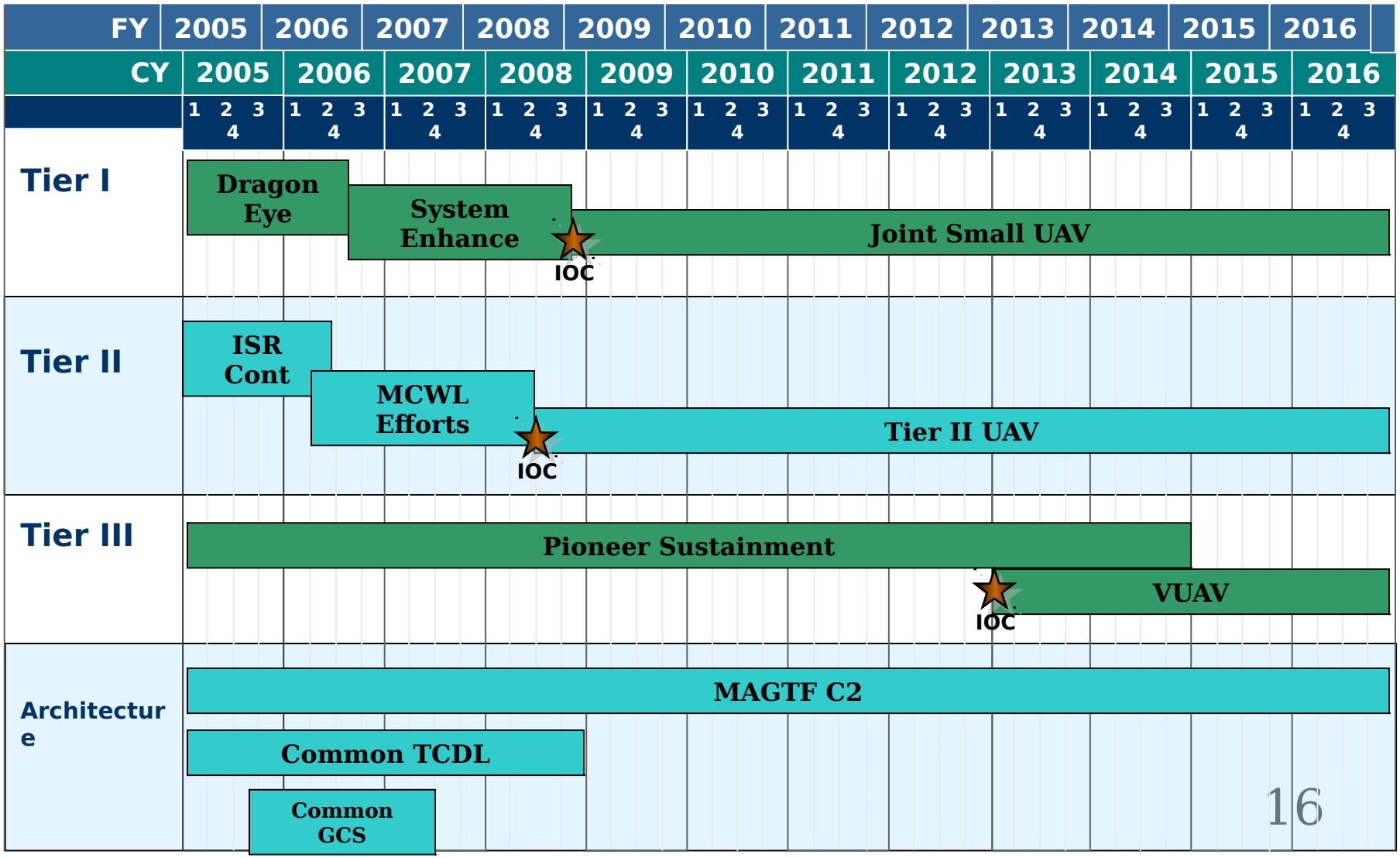
Conclusion

Request CEAB endorsement on:

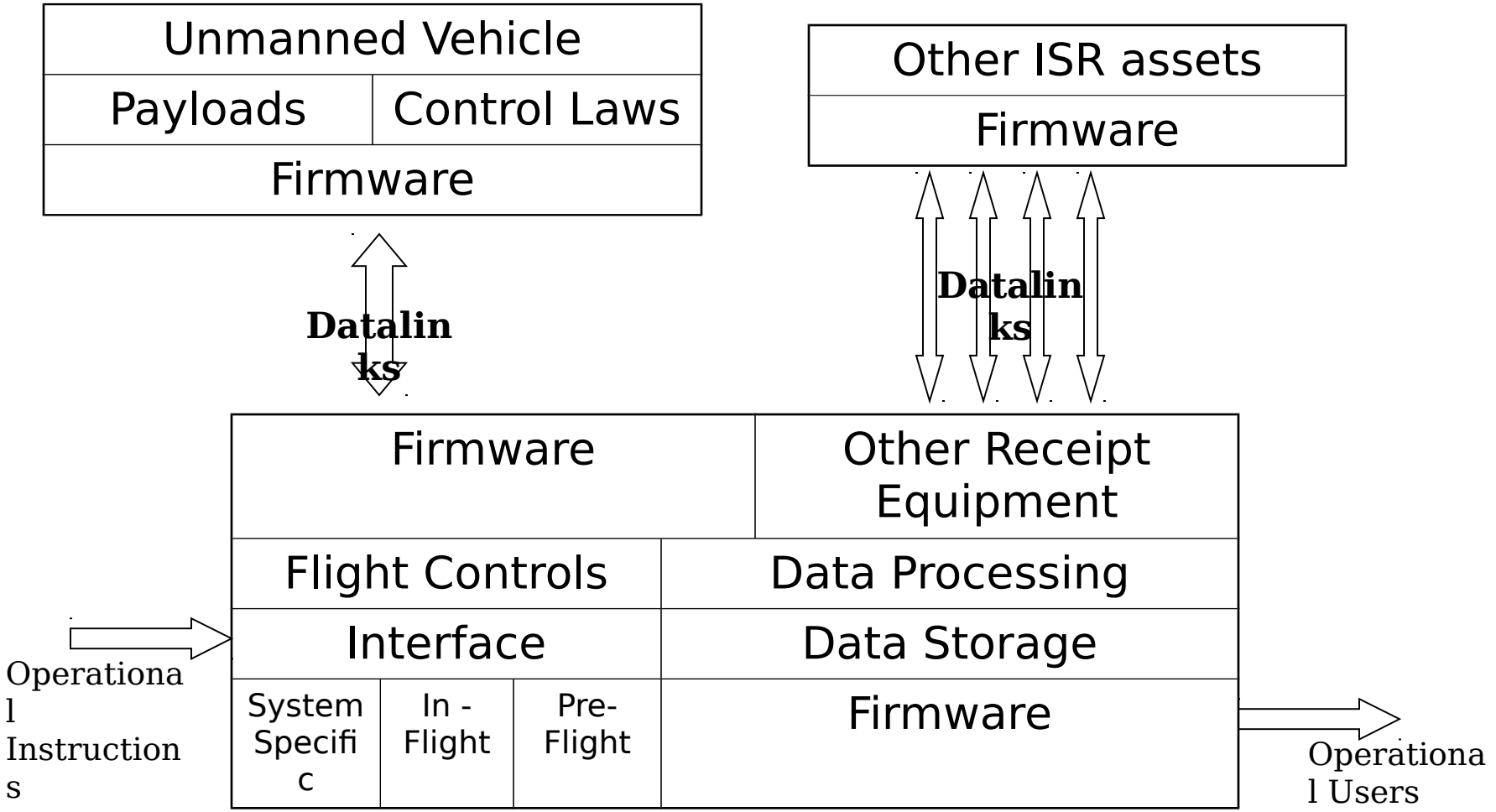
- **3 Tier FoS Vision**
- **Establishment of USMC OIPT to make recommendations to MROC on:**
  - **Advocacy and ownership**
  - **Acquisition strategy**
  - **Funding Strategy**

Back Up

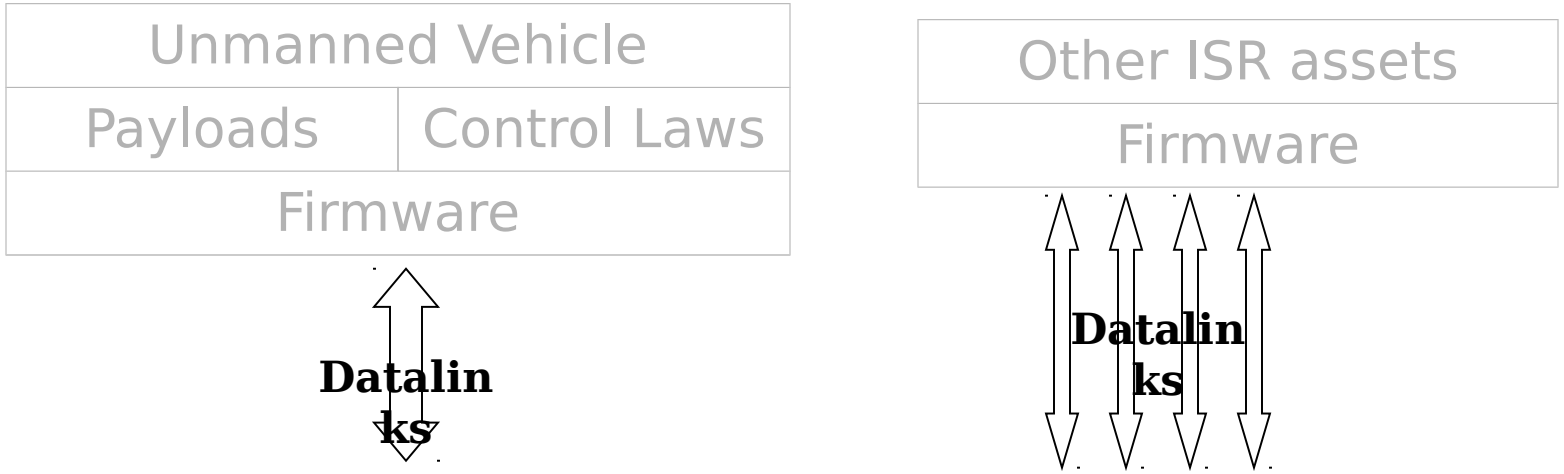
Marine Corps FoS UAV Schedule



Block Breakout of UAV C2 Requirements



MCSC Responsibilities



NAVAIR Responsibilities